19971102.qrp v00_n897.qrs.971102

Date: Sun, 2 Nov 1997 19:03:07 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 897

QRP-L Digest 897

Topics covered in this issue include:

  1) [30090] Re: Resonance (was: Re: 10 MHz/UTC Receiver)
     by neil <neil@aade.com>
  2) [30090] Correction on New NW QRP Members
     by Bill Todd <bill@techline.com>
  3) [30091] THE GREAT COLORADO SNOWSHOE RUN
     by "Dick Schneider" <rschneid@ix6.ix.netcom.com>
  4) [30092] Re: Circad demo
     by "Jim Kortge, K8IQY" <jokortge@mci2000.com>
  5) [30093] Re: Johnson Matchbox
     by "Steve & Anne Ray" <sbralr@worldnet.att.net>
  6) [30094] re: NorCal 2222 Design Notes: Mixers
     by Rich Bachmann <bachmann@ari.net>
  7) [30095] SS
     by David Adams <adamsclan@netgate.net>
  8) [30096] CQC MEETING NOTES, PHOTOS
     by "Marshall Emm" <mgemm@mtechnologies.com>
  9) [30097] Re: Viking Ranger & such like historical stuff
     by w4bws@juno.com (Donald E Sanders)
 10) [30098] Re: Tube QRP Rigs
     by w4bws@juno.com (Donald E Sanders)
 11) [30099] Re: HW-8 and OHR DD-1
     by Bill Myers <bjmyers@arc.net>
 12) [30100] Electronic Software....
     by Bryn Joynes <bjoynes@edge.net>
 13) [30101] Re: NorCal 2222 Design Notes: Mixers
     by kd7s@psnw.com (Bill Jones)
 14) [30102] 2N2 project (2)
     by Steven Weber <kd1jv@moose.ncia.net>
 15) [30103] Links in email
     by Ron Giuntini <rong@slip.net>
 16) [30104] Re: Circad demo
     by WB0NZM@aol.com
 17) [30105] Reverse Polarity
     by Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>
 18) [30106] Re: Reverse Polarity
     by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
 19) [30107] Tuner notes

    by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
 20) [30108] Re: Links in email
    by "Ron Smith" <resmith@primenet.com>
 21) [30109] SUNDAY NITE N/T+FOX!!!
    by ARDUJENSKI@aol.com
 22) [30110] silver contacts
    by tom whalen <whalen@swcp.com>
 23) [30111] Re: Links in email
    by Greg Newberry <newberry@cyberhighway.net>
 24) [30112] RE: Reverse Polarity
    by Ed Manuel <n5em@flash.net>
 25) [30113] Re: Links in email
    by Russ - N5LT <russ@inetport.com>
 26) [30114] For sale: MFJ 9020 QRP Transceiver
    by Karl Heimbach <heimbach@concentric.net>
 27) [30115] RE: Reverse Polarity
    by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
 28) [30116] Russian Callbook
    by n4so@juno.com (charles k brown)
 29) [30117] Re: 1SS101? diode
    by "J. Skalski" <jskalski@acsu.buffalo.edu>
 30) [30118] IC-706
    by "John Kirk, VE6XT" <jakirk@freenet.calgary.ab.ca>
 31) [30119] Re: IC-706
    by kv7g@juno.com
 32) [30120] CIRCAD 3.67b Demo
    by n4so@juno.com (charles k brown)
 33) [30121] Digitrex 40 m DSB/CW xcvr 4 sale/swap
    by W7LS <w7ls@blarg.net>
 34) [30121] MFJ 9020 sold
    by Karl Heimbach <heimbach@concentric.net>
 35) [30122] RE: Links in email
    by Tom Morgan <liveoak@sccoast.net>
 36) [30123] Next Austin (TX) QRP Club Meeting - A QRP Club
    by Glen Reid <k5hgb@flash.net>
 37) [30124] Re:FS OHR ExpII-30M
    by k4zd@juno.com (Robert L Hanrahan)

Date: Sat, 01 Nov 1997 16:01:46 -0800
From: neil <neil@aade.com>
To: qrp-l@Lehigh.EDU
Subject: [30090] Re: Resonance (was: Re: 10 MHz/UTC Receiver)
Message-ID: <345BC2EA.325@aade.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> >>
> >>   f = 1 / (2 pi sqrt(lc))
> >
> >This is all well and good, but given the essentially infinite combinations
> >of L & C, what is the rule of thumb for choosing one or the other?
> >
> >72,
>
> The one I use is C (pF) = the wavelength in metres (approx.).
>
As further information on this subject, The impedence of a parallel
resonant tank circuit is Z = Q x SQR(L/C). The ratio of L/C should be
chosen to provide the desired impedence while the product
F = 1/ SQR(L x C) provides resonance at the desired frequency.
--
Neil
http://www.aade.com
mailto:neil@aade.com
Almost All Digital Electronics
1412 Elm St. SE
Auburn, WA 98092
253-351-9316

Date: Sun, 02 Nov 1997 16:45:12 -0800
From: Bill Todd <bill@techline.com>
To: qrp-l@scn.org
Cc: qrp-l@Lehigh.EDU
Subject: [30090] Correction on New NW QRP Members
Message-ID: <1.5.4.32.19971103004512.006ffeb0@mail.techline.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello folks -

Your esteemed(?) Editor made a goof - I mananged to mangle two of our
new Club Member's names.

Member #469 is K5IUO. His REAL name is Bud McClure (not "Quale")

Member #470 is KH6B.   His REAL name is Dean Manley (not "McClure")

So, now that I have cleared that up...I won't make any more mistakes
this year.

CUL, Boris Snafelglipanoff - N7MFB
NW QRP Club Editor

Date: Sat, 1 Nov 1997 18:37:58 -0600
From: "Dick Schneider" <rschneid@ix6.ix.netcom.com>
To: cqclist@lists.csn.net, qrp-l@Lehigh.EDU
Subject: [30091] THE GREAT COLORADO SNOWSHOE RUN
Message-ID: <199711020142.TAA18790@dfw-ix4.ix.netcom.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

THE GREAT COLORADO SNOWSHOE RUN

Sponsored by the Colorado QRP Club

Need a good excuse to skip the boring company party this holiday season? Try the Great Colorado Snowshoe Run. It's a short winter QRP event designed for fun AND the scientific evaluation of propagation and antenna gain. We've limited the contest to a single band, two hours and have created competition classes based on your type of antenna. Exchanges and multipliers include both SPCs AND your 4-character alphanumeric Maindenhead Grid Square designation. Plus, since it's easy to get lost in a Colorado blizzard, forcing you to snowshoe around in circles, you can work the same station more than once. But there must be a half-hour or more between contacts with the same station. Have some fun and give us your feedback on the event. We'll award certificates to the top finishers in each antenna class. We may even come up with prizes, like a one-day supply of Hostess Snowballs!

WHEN: Sunday, December 14 0300-0500 UTC (Saturday, Dec. 13 Local)

     Pacific: Sat., Dec. 13 7-9 pm
     Mountain: Sat., Dec. 13 8-10 pm
     Central: Sat., Dec. 13 9-11 pm
     Eastern: Sat., Dec. 13 10 pm - 12 midnight

BAND: 40 Meters only

MODE: CW

POWER FOR ENTRANTS: 5 watts Maximum

(QRO stations are encouraged to join the run, but we can't accept your logs as a contest entry. QRP stations can work QRO stations.)

CLASSES: Based on antenna!

S - Single element wire (includes dipole, random wires, Zepp, doublet, inverted "V", slopers, single element beams, single element loops, inverted "L", etc.)

V - Verticals (includes single element, ground plane, trapped vertical, anything with vertical polarization and omnidirectional pattern).

M - Multi-element arrays/beams (includes beams, multi-element loops, phased verticals, V-beams, rhombics, etc.)

If you are not sure about your antenna class, send us a description ASAP (via email to rschneid@ix.netcom.com) and we'll let you know.

Operations may be conducted with different antennas provided all antennas used are in the same class.

EXCHANGE: RST SPC Grid Square Antenna Power

Examples: 549 CO DM79 S 5W

WORKING STATIONS MORE THAN ONCE: The same station may be worked up to three times during the Snowshoe Run, provided there is a minimum of 30 minutes between QSOs with the same station.

SCORING:
3 points per QSO, the first time each station is worked.
2 points for the second time the same station is worked.
1 point for the third time the same station is worked.

MULTIPLIERS: SPCs and Grid Squares

FINAL SCORE: QSO Points X SPCs X Grid Squares Worked = Total Score

LOG SUBMISSION: Submit logs showing time, callsign, exchange and QSO points for each station worked.

Example:

 0305 W0CQC CO DM79 S 5W 3
 0312 N1FN CO DM79 V 5W 3
 0336 W0CQC CO DM79 S 5W 2

Please include an alphabetical dupe list showing times and calls, a
list of SPC and GRID SQUARE multipliers, and a summary sheet showing
the antenna class you are entering, a description of your antenna,
power used and your calculation of total score.

Send SNAIL MAIL log submissions to:

Dick Schneider
AB0CD
4464 E Bails Pl
Denver CO 80222

Send EMAIL log submissions (in ASCII format) to:

Jan Medley
KB0WQT
jmedley@ix.netcom.com

Submit logs within 30 days after contest close. Logs must be
postmarked no later than January 13, 1998.

WEB SITE POSTINGS: CQC will post a list of received logs, claimed
scores, and propagation/performance data on its web site at
http://www.mtechnologies.com/mthome/cqc.htm. Check the Contest page.

Ver: 10/31/97
72/73 Dick AB0CD..

Date: Sat, 01 Nov 1997 21:05:16 -0500
From: "Jim Kortge, K8IQY" <jokortge@mci2000.com>
To: rheiss@sprynet.com
Cc: qrp-l@Lehigh.EDU
Subject: [30092] Re: Circad demo
Message-ID: <3.0.1.16.19971101210516.2a472c52@mail-cluster.pcy.mci.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii

At 01:00 PM 11/1/97 -0800, you wrote:
>Okay, I downloaded two different Circad free demo versions from the web
>and tried to use them to capture my 2n2222 transceiver schematic. I

>read the FAQ file from sci.electronics and it seems to confirm that the
>Circad demo library is seriously crippled.
>
>I get the impression that Circad might work well for drawing wires on a
>board, starting with a netlist file. We don't need a pretty board right
>now; what we need is a way to share pretty schematic drawings via
>newsletters and the web, and I am still looking for free software to do
>that.
>
>73, Rob   KO6KA
>rheiss@sprynet.com
>
>
Rob...Take a look at the IVEX design package from their web site.
It will allow you to do 100 pins, and for $30.00 for each module,
you can update it to 200 pins.

I used the 100 pin version to do a complete Super VXO design,
which was fairly sophisticated. Had something like 6 pins left!

I've ordered the upgrade, which is available from many small
electronics dealers.

Just a thought......

72 and kind regards......Jim

Jim Kortge, K8IQY (ex NU8N) | NorCal, QRP-L
jokortge@mci2000.com | __o   H.F. bicycle mobile
Fenton, MI |_`\<,   Mizuho 17/40 SSB
...   . (*)/(*) . .   .   .
NorCal 38S/30 Log - 34 States; 40 Countries - Running 3 watts
Most recent -   Iowa   Mauritius

NorCal 38S/17 Log - 16 States; 23 Countries - Running 1.5 watts
Most recent -   Delaware   Bulgaria

Date: Sat, 1 Nov 1997 21:12:00 -0500
From: "Steve & Anne Ray" <sbralr@worldnet.att.net>
To: "QRP Group" <qrp-l@Lehigh.EDU>, <cebik@utkux.utcc.utk.edu>
Subject: [30093] Re: Johnson Matchbox
Message-ID: <19971102021251.AAA26761@pentium>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

LB gave a excellent description of the Johnson Matchbox. I had used a HB Tee type with a 4 to 1 balun for my 80-40 Zepp and a 1 to 1 balun with my 30 M Zepp. Now that I have the Johnson Matchbox I wonder how I ever worked without it. My experiences with it showed it would not tune quite the range as my Tee tuner, but to get a perfect match I simply lengthen the ladder line about 10 feet. It works great on my 30 M Zepp in the 40 Meter position.

Like LB said it is really built, it was designed for 275 W in the AM days so the coils, contacts and capacitors are big.

It is a little unusual to have a tuner that is bigger then my 4 QRP rigs put together.

I saw mine at a hamfest the first one I had seen in years and did not hesitate to buy it. It was missing the receiver change over relay, but for $60 I could not pass it up. A good price would probably be less then $100 and I have seen them for sale at more then that.

72

Steve Ray K4JPN ex K1VKW HW-101, HW-8, SWL 30-40 and NC 38S Heath Kit fan, just added a Pixie II

Date: Sat, 1 Nov 1997 21:17:52 -0500
From: Rich Bachmann <bachmann@ari.net>
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>
Cc: "'svecbrdk@well.com'" <svecbrdk@well.com>
Subject: [30094] re: NorCal 2222 Design Notes: Mixers
Message-ID: <01BCE70B.A08839B0@ppp_bach.ari.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

While looking at the end of year sale, I noticed that Dan's Small Parts =
offers a double balanced mixer kit with 4 hot carrier diodes, 2 toroids, =
wire and instructions for 2 bucks. =20

Standard disclaimer, no financial interest, etc.

72, Rich, N3SLR
bachmann@ari.net

Date: Sat, 01 Nov 1997 18:45:18 -0800
From: David Adams <adamsclan@netgate.net>
To: bachmann@ari.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30095] SS
Message-ID: <345BE93E.59CEF4C0@netgate.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Minor sweepstakes problem here, but nothing that I can't work around!
About an hour into it, my kenwood started losing audio (the receiver cut
in and out)....(alot), so I had to take that rig down and with it, 20m.
No biggy, the s-meter still was a-going as when the audio was out, so it
is an audio problem and not anything more in-depth with the receiver.
Gives me a good excuse to go out with the 8 and the explorer in the
morning though...Got the SLVern primed and ready.

73 de dave, n9uxu

Back to 40!...and gosh are you sweepstakers fast! I have to listen to
the same guy go through multiple exchanges to be sure I'm hearing what I
think I'm hearing.

--
David J Adams, N9UXU   adamsclan@netgate.net
Amateur Radio, Flow Cytometry, Digital Photography and Parrot enthusiast

http://ng.netgate.net/~adamsclan

Date: Sat, 1 Nov 1997 21:13:31 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: cqclist@lists.csn.net, qrp-l@Lehigh.EDU
Subject: [30096] CQC MEETING NOTES, PHOTOS
Message-ID: <199711020312.UAA07017@bobcat.sni.net>

MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

11/1/97 The November meeting took place on Saturday at the Castlewood Library, followed by the now-traditional lunch at Bennet's Pit Barbeque. Attendance was good, and the talk by Walt Stinson, W0CP, Vice Director of the Rocky Mtn. Division of ARRL, was interesting and well received. There was great interest in our new "quickie" contest December 13th, the Great Colorado Snowshoe Run. Awards were issued to Brad Bugleston KB0ROL (Gold Star), Michael Stewart KB0ZTN (Colorado Counties), and Mike Garkie KC0CAJ (ARRL 1st Contact). Lunch was probably ok, but most of us were too busy talking to pay much attention to it. Film at 11!

Web surfers-- goto http://www.mtechnologies.com/mthome/cqc.htm and select the contest page for the Snowshoe Run rules; select CQC Bulletin Board for the meeting notes and photos.

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
Milestone Technologies
Software, kits, tools...
http://www.mtechnologies.com/mthome
(303)752-3382
--

Date: Sat, 01 Nov 1997 22:11:58 EST
From: w4bws@juno.com (Donald E Sanders)
To: n4js@amsat.org
Cc: qrp-l@Lehigh.EDU
Subject: [30097] Re: Viking Ranger & such like historical stuff
Message-ID: <19971101.232429.2167.5.W4BWS@juno.com>

John et all, if you are interested in a tube tx for qrp that runs on 12 volts for a supply, there is an interesting rig in the March 1992 73 magazine on page 40. It is a 40/80 wave ryder by Charles Rakes KI5AZ using a 3A4 for 1-2 watts as a tuned plate oscillator. Interesting circuit which uses a 555 ic oscillator driving a MJE3055 to generate the high voltage for the tube. Should make a great Norcal project. Hmmm, how about a companion regen reciever usinga 3A4 or similar tube?

Donald E. Sanders W4BWS

694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937
407-779-0222 Fax 407-779-0830
E-mail to w4bws@juno.com
My favorite QRP rig glows in the dark

Date: Sat, 01 Nov 1997 22:37:27 EST
From: w4bws@juno.com (Donald E Sanders)
To: n4js@amsat.org
Cc: qrp-l@Lehigh.EDU
Subject: [30098] Re: Tube QRP Rigs
Message-ID: <19971101.234922.2527.0.W4BWS@juno.com>

John, I just found copy of my April 97 CQ mag and article by K4TWJ with
the original Sucrets 1 tube Wee Ceiver using 3v4 and companion i tube Tx
with 6AQ5 for 2-4 watts or 3S4 for 500-750 mw. Maybe its time for a fox
hunt with glow bugs.
Donald E. Sanders W4BWS
694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937
407-779-0222 Fax 407-779-0830
E-mail to w4bws@juno.com
My favorite QRP rig glows in the dark

Date: Sat, 01 Nov 1997 21:44:46
From: Bill Myers <bjmyers@arc.net>
To: sbralr@worldnet.att.net, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [30099] Re: HW-8 and OHR DD-1
Message-ID: <3.0.1.16.19971101214446.23afdf60@mail.arc.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:56 PM 10/31/97 -0500, Steve & Anne Ray wrote:
>I have come up with a simple way to hook up the HW-8 to the OHR DD-1
>Digital Dial. If anyone is interested or you want to post it on the ideas
>page I have it in a Word 6.0 format for the schematic and the text on how
>to do it.

Steve...

I'm interested, and I'll be happy to post it with other mods for the
HW7/8/9 on my homepage.

72

--
Bill Myers   KK4KF   Grid - EM60rk
FISTS QRP-L ARCI scQRPions CQC NE AK/QRP NorCAL
Snail Mail   P. O. Box 178 Shalimar, FL 32579
e-mail   <bjmyers@arc.net>
homepage http://www.nfds.net/~bmyers/
CHECK OUT THE FISTS INTERNATIONAL CW CLUB U. S. HOMEPAGE
AT http://www.fists.org

Date: Sat, 01 Nov 1997 22:06:18 -0600
From: Bryn Joynes <bjoynes@edge.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30100] Electronic Software....
Message-ID: <345BFC3A.3BBA@edge.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi everybody.

Well with so much excitement about the new 2N2222 project, I thought
this web site might be of use. It seems to contain all kinds of
downloadable electronic software. It has a few autorouting programs,
spice, DSP, and a lot of other things.

http://www.industry.net/c/mn/_swcircuits

BTW, I have not connection with any of the companies.
--
Best Regards

Bryn Joynes

KF4GKO EM65LO

Date: Sat, 1 Nov 1997 20:14:15 -0800 (PST)
From: kd7s@psnw.com (Bill Jones)

To: qrp-l@Lehigh.EDU
Subject: [30101] Re: NorCal 2222 Design Notes: Mixers
Message-ID: <199711020414.UAA12385@sierra.psnw.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks to Wayne for the great advice on double-balanced mixers. I certainly plan to build one for my entry. However, the big stumbling block for me is how to properly terminate the i.f. port of a DBM. I've learned (from Campbell and Lewellen) that an improperly terminated DBM can cause serious degradation of the dynamic range. Also, a diplexer for a superhet is different than for a direct conversion receiver. So, it's back to "Solid State Design" I guess.

>-- You can make a diode double-balanced mixer (DBM) with four diodes
>matched for forward resistance using a DMM and a couple of toroidal
>transformers;
==========
Bill Jones - KD7S <><
Sanger, California
Reply to kd7s@psnw.com
==========

Date: Sat, 01 Nov 1997 23:23:03
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@Lehigh.EDU
Subject: [30102] 2N2 project (2)
Message-ID: <3.0.1.16.19971101232303.26c773a8@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Howdy friends of 2N2's

VFO's

 I build up the K7HFD low-noise oscillator as shown on page 14.18 of the 1996 ARRL handbook. This circuit has real promise. It settled down nicely and is now very slowly drifting up in freq.

This oscillator has some nice features. First it was designed to use 2N3904's. Second, it's real simple. What I like about it is that it doesn't use a lot of caps that can affect drift. Finally, it produces a lot of output power. As shown in the handbook, it's spec'ed to give a whooping +17 dBm of power(50 mw!). I've toned mine down a bit so it gives a 1 V p-p

signal into 50 ohms. That's still a good signal for just two transistors.

CirCad

Just down loaded the demo and played around with it for a few minutes. Will take a few hours to get used to how it works, but is resonably intuitive, although different than the one I'm used to using (Autotrax)

The schematic portion is a bit slim on the libairy, but only in digital IC's. All the basic symbles are there. Certianly what is needed for this project. I needed a good schematic capture program, this might be it. Thanks for the tip, John.

On the pcb layout part, only thing I see missing is a 0.1" lead spaced cap. I use that a lot, so will be the first componet I create. Good to see one can manualy lay out a board. These autorouters never create a useable RF board.

All in all, I'd say get the demo, heck, it's free.

If you missed it the first time, you can find it at:
http://www.holophase.com

(bet they are going to wonder why they have so many down loads in the next few days...)

Boy, we got a real Nor'easter blowin outside, too bad its rain...

72N2 2U2,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Sat, 01 Nov 1997 21:34:26 -0800
From: Ron Giuntini <rong@slip.net>
To: qrp-l@Lehigh.EDU
Subject: [30103] Links in email
Message-ID: <345C10E2.A99@slip.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

OK. Many of you guys are sharp and are able to put a link into an

email..I am not up on this yet...Can someone tell me how it is done?

Date: Sat, 1 Nov 1997 23:39:30 -0500 (EST)
From: WB0NZM@aol.com
To: jokortge@mci2000.com, qrp-l@Lehigh.EDU
Subject: [30104] Re: Circad demo
Message-ID: <971101233929_-558136088@emout02.mail.aol.com>

In a message dated 97-11-01 21:07:18 EST, you write:

<< Rob...Take a look at the IVEX design package from their web site.
 It will allow you to do 100 pins, and for $30.00 for each module,
 you can update it to 200 pins. >>

Jim, I saw that package at an electronics store here, locally. I wondered if it was any good. Obviously, you like it. :-)

Just for informational purposes - the demo version of Circad will allow a considerably larger schematic to be drawn, than the freeware version of IVEX. But, IVEX may be more 'functional', with less features disabled, than Circad. I need to download IVEX and take a good look at it, comparing it to Circad.

Thanks for mentioning this package.

   John

Date: Sat, 1 Nov 1997 23:08:59 +0000
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>
To: qrp-l@Lehigh.EDU, gqrp-l@blacksheep.org
Subject: [30105] Reverse Polarity
Message-ID: <Ie1Q0CALa7W0EwpB@gqrpclub.demon.co.uk>
MIME-Version: 1.0

Reading the recent mail about protecting rig reminds me of a pet grouse of mine, i.e why do the manufacturers of radio gear in general fail to include a protective diode or some such device in AR gear? Yes I know, it will add to the cost, but honestly is that a good reason, considering the cost of a diode - hardly worth more than a few pence/cents? I speak from experience when I say, OK you never have connected your rig etc up the wrong way, but mark my words YOU WILL! Trouble is it's so easy to

mistake a mistake, which can be most costly, as I have done a few times over the past 26 years on the air. Some firms do include protection in some of their equipment and having recently blown my MFJ Antenna Analyzer, I just wonder why it isn't the norm. Oh well, perhaps I'll learn one day.
POSTSCRIPT: the Antenna Analyzer lives again after replacing the blown FETs etc!

--
Frank, G3YCC
QRP web page: http://www.gqrpclub.demon.co.uk

Date: Sun, 02 Nov 1997 18:56:23 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: g3ycc@gqrpclub.demon.co.uk
Cc: qrp@pandora.lugs.org.sg
Subject: [30106] Re: Reverse Polarity
Message-ID: <345c5c59.pandora@pandora.lugs.org.sg>

On Sat, 1 Nov 1997 23:08:59 +0000, "Frank G3YCC" <g3ycc@gqrpclub.demon.co.uk> wrote:
> Reading the recent mail about protecting rig reminds me of a pet grouse
> of mine, i.e why do the manufacturers of radio gear in general fail to
> include a protective diode or some such device in AR gear? Yes I know,

I'm not sure but there could be some valid reasons. The voltage drop across a diode, for example. In some of the cases the diodes have to carry high currents for a long time, thus requiring a large heating sink? In ICOM rigs, the power plug is so designed that you cannot plug it in the wrong way so some protection is being afforded.

73 de 9V1ZV Daniel
--

+------------+--------------------------------+
Daniel Wee	daniel@pandora.lugs.org.sg
9V1ZV	
QRP-L #667	9V1ZV@amsat.org
+------------+--------------------------------+

Date: Sun, 2 Nov 1997 08:09:45 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: towertalk@contesting.com, QRP-L List <qrp-l@Lehigh.EDU>, antennas@qth.net, gqrp-l@blacksheep.org

Subject: [30107] Tuner notes
Message-ID: <Pine.SOL.3.94.971102080630.29742A-100000@utkux4.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have placed the notes I recently distributed on the Johnson Matchbox
(with some additions on the Annecke link-coupled tuner and a simplified
schematic of them) at the site as additions to the entry on link-coupled
tuners (near the bottom of the list on the main page).

My thanks to all who universally identified the internal directional
coupler in my unit as a non-factory modification.

-73-

LB, W4RNL

L. B. Cebik, W4RNL
1434 High Mesa Drive
Knoxville, Tennessee
37938-4443 USA
(Off)(423) 974-7215
(Hm) (423) 938-6335
(FAX)(423) 974-3509
cebik@utk.edu
URL: http://funnelweb.utcc.utk.edu/~cebik/radio.html

Date: Sun, 2 Nov 1997 07:46:55 -0700
From: "Ron Smith" <resmith@primenet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [30108] Re: Links in email
Message-ID: <01bce79e$2a2be4e0$LocalHost@Presmith>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ron, it should be as simple as typing in the full address to the Web site or
your full e-mail address. Examples:

http://www.primenet.com/~resmith

and

resmith@primenet.com

Hope that helps...

72

Ron Smith
KD7VD
Boise, ID

-----Original Message-----
From: Ron Giuntini <rong@slip.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Saturday, November 01, 1997 9:38 PM
Subject: Links in email

>OK. Many of you guys are sharp and are able to put a link into an
>email..I am not up on this yet...Can someone tell me how it is done?
>
>

Date: Sun, 2 Nov 1997 10:52:01 -0500 (EST)
From: ARDUJENSKI@aol.com
To: qrp-l@Lehigh.EDU
Subject: [30109] SUNDAY NITE N/T+FOX!!!
Message-ID: <971102104315_-224400298@emout02.mail.aol.com>

Don't forget!

TIME: 0200-0400 UTC
FREQ: NEAR 7.12
Will use "VVVV FOX" 5 minutes before and thru the nite to help the hounds get the "scent".

40 M Novice Band have been worse than bad the past week. So I will be running a full pint (5W) and I have retuned the rig and DOUBBLE ZEPP. No contest this week for the cookies until the band opens up a bit.

KB7MBI (alan)

Date: Sun, 02 Nov 1997 08:58:28 -0700

From: tom whalen <whalen@swcp.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30110] silver contacts
Message-ID: <345CA324.3D8A@swcp.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Can someone please send me the info on where to buy the silver contacts?
Thanks, Tom WB5QYT

Date: Sun, 02 Nov 1997 09:08:38 -0700
From: Greg Newberry <newberry@cyberhighway.net>
To: resmith@primenet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30111] Re: Links in email
Message-ID: <345CA586.6752@cyberhighway.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ron Smith wrote:
>
> Ron, it should be as simple as typing in the full address to the Web site or
> your full e-mail address. Examples:
>
> http://www.primenet.com/~resmith
>
> and
>
> resmith@primenet.com
>
> Hope that helps...
>
> 72
>
> Ron Smith
> KD7VD
> Boise, ID
>
> -----Original Message-----
> From: Ron Giuntini <rong@slip.net>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Date: Saturday, November 01, 1997 9:38 PM
> Subject: Links in email

>
> >OK. Many of you guys are sharp and are able to put a link into an
> >email..I am not up on this yet...Can someone tell me how it is done?
> >
> >

Remember.. It's up to the email program you are using to identify the
URL and create a link out of it. Some email packs will just show it as
text... Most of the email packages contained within a browser package
(Netscape, IE) will create the link, show it in blue underlined
automatically.

Greg
--

```
-------------------------------------------------
|  Greg Newberry    newberry@cyberhighway.net   |
|  WB7DUO QRP-L #760                            |
|  NorCal #1899  CQC #465  AR-QRP #65           |
-------------------------------------------------
```

Date: Sun, 2 Nov 1997 10:38:25 -0600
From: Ed Manuel <n5em@flash.net>
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>
Subject: [30112] RE: Reverse Polarity
Message-ID: <01BCE77B.960F25A0@hsh7-124.flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

While discusing reverse polarity, it was said:

> Reading the recent mail about protecting rig reminds me of a pet =
grouse
> of mine, i.e why do the manufacturers of radio gear in general fail to
> include a protective diode or some such device in AR gear? Yes I know,

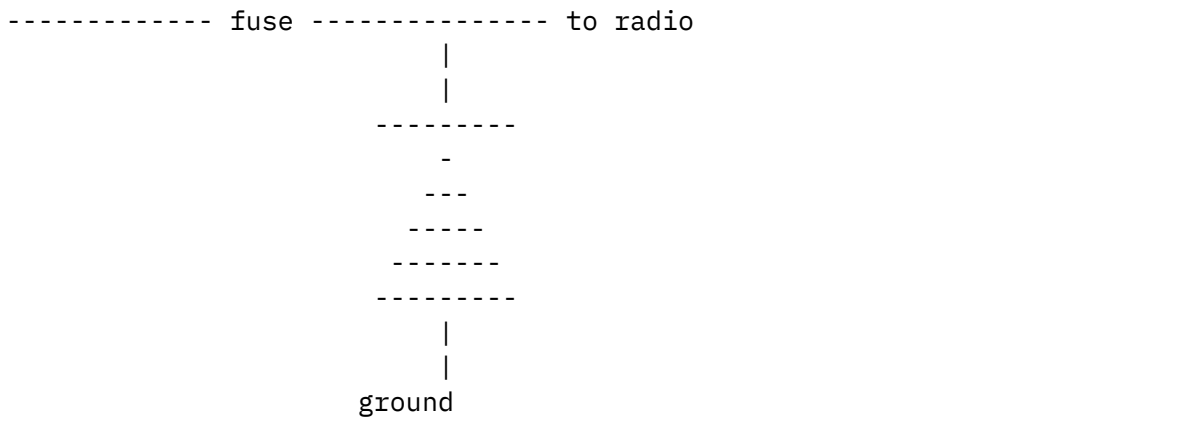
I'm not sure but there could be some valid reasons. The voltage drop =
across
a diode, for example. In some of the cases the diodes have to carry high
currents for a long time, thus requiring a large heating sink?=20

Gang,

The addition of an in-line diode for reverse protection does indeed have =
the problems mentioned. Many rigs would suffer performance related =

problems if the .7 volt drop was there. (Of course, you might have a =
nice HCD that would only suffer .2 volts)

There is another method of doing this. If, instead of a diode, you put =
a fuse in-line with the power line and then put a reverse diode from the =
junction of the diode and radio to ground, you create a situation where =
a reverse connection will blow the diode, protecting the radio. This =
way, the fuse is not giving any drop and you also have the security of =
knowing that the fuse will protect overcurrent situations as well.



I think I did that right. You do want a rugged diode so it will survive =
until the fuse goes. Not quite as elegant as a series diode but I do =
have radios that would not work for long from a 12 vdc gel-cell after a =
.7 volt drop . That's one of the sad ironies today. We think of our =
rigs as 12 vdc rigs but they really want to see 13.6 from a mobile =
environment with the engine running (or 13.6 vdc from an AC supply). =
Drop far below 12 vdc and bad things start to happen. This does not =
include superlative designs from our QRP designers, of course. I'm =
thinking about the Icom/Kenwood/Yaesu boxes.

And, of course, no one would have this kind of a problem with their own =
2N2222 design!

Ed, N5EM
n5em@flash.net
n5em@amsat.org

Date: Sun, 2 Nov 1997 10:40:19 -0600 (CST)

From: Russ - N5LT <russ@inetport.com>
To: newberry@cyberhighway.net
Cc: qrp-l@Lehigh.EDU
Subject: [30113] Re: Links in email
Message-ID: <1.5.4.16.19971102114306.421f053e@inetport.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:08 AM 11/2/97 -0700, you wrote:

>Remember.. It's up to the email program you are using to identify the
>URL and create a link out of it. Some email packs will just show it as
>text... Most of the email packages contained within a browser package
>(Netscape, IE) will create the link, show it in blue underlined
>automatically.
>
>Greg

Also, note that in some email programs while it may just look like text, ie. no color or underline
it is actually a link. Simply run your mouse pointer over it and if the URL is formatted properly in the
message the pointer will change shapes, such as turn into a hand, and allow you to double
click on it. The text must include the "http://" portion of the URL to clue in your software.

73.
Russ--

N5LT
russ@inetport.com
"Contesting is a Contact Sport"

Date: Sun, 02 Nov 1997 11:08:35 -0600
From: Karl Heimbach <heimbach@concentric.net>
To: "qrp-l@LEHIGH.EDU" <qrp-l@Lehigh.EDU>
Subject: [30114] For sale: MFJ 9020 QRP Transceiver
Message-ID: <345CB393.61F8@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

MFJ 9020 QRP transceiver/manual for sale. Has keyer board (jumpered for

iambic B) and audio filter. Case has been repainted with black wrinkle paint.

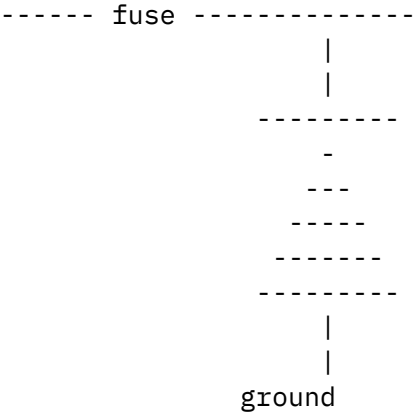
Asking $105 shipped.

Thanks,

Karl - W5QJ

Date: Mon, 03 Nov 1997 01:15:19 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: n5em@flash.net
Cc: qrp@pandora.lugs.org.sg
Subject: [30115] RE: Reverse Polarity
Message-ID: <345cb529.pandora@pandora.lugs.org.sg>

On Sun, 2 Nov 1997 10:38:25 -0600, "Ed Manuel" <n5em@flash.net> wrote:
>There is another method of doing this. If, instead of a diode, you put a
>fuse in-line with the power line and then put a reverse diode from the
>junction of the diode and radio to ground, you create a situation where a



Well, a couple of thoughts. Say the rig draws 20A peak (okay, so its a QRO rig :-)). You'd want to rate the fuse above 20A, say 24A, maybe 25A. This has to be a quick-blow fuse. Don't know if they make them at those ratings though.

Okay, now I am using a 22A rated PSU with this thing and I plug it in the wrong way. The diode has to survive at least 24A until the fuse blows. That's alot of current! If the diode dies first then your rig's bought it.

Okay, say we have a 40A diode in there. Current draw is rising now but the cheap PSU cannot really deliver 24A!! It folds back a little and starts to

get really hot, but the fuse does NOT blow! So does the diode in the rig. It may even catch fire.

So, my conclusion is that while this scheme works great for low current draw equipment, like in my ARK-20, I probably would not do something like this for high current equipment. This does not mean it won't work. Properly designed, it will probably work well. In some PSU's this type of 'crowbar' circuitry is implement using SCRs.

Oh well... just blabbing along. Don't really know what I am talking about anyway :-)

73 de 9V1ZV Daniel
--

+------------+--------------------------------+
Daniel Wee	daniel@pandora.lugs.org.sg
9V1ZV	
QRP-L #667	9V1ZV@amsat.org
+------------+--------------------------------+

Date: Sun, 02 Nov 1997 13:19:24 EST
From: n4so@juno.com (charles k brown)
To: qrp-l@Lehigh.EDU
Subject: [30116] Russian Callbook
Message-ID: <19971102.011739.4383.15.n4so@juno.com>

A Ukraine Callbook Directory is available.
QSL information for Ukraine stations only. UR3IDD listed.

Details: request   callbook.txt

Do zabatchynia
Ken Brown, N4SO
QTH nr Mobile, AL/ EM50tk
qrp-l #622
n4so@juno.com

Date: Sun, 2 Nov 1997 14:18:02 -0500 (EST)
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
To: qrp-l@Lehigh.EDU
Subject: [30117] Re: 1SS101? diode
Message-ID: <Pine.GSO.3.96.971102141243.28047A-100000@callisto.acsu.buffalo.edu>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Thanks to all for help in identifying the diodes.
1n270's were substituted and low and behold.....it works.
Whew that is a load off.

Next fix is the Yaesu Man Pack FT70GC.
Then come the incomplete projects. I bet I would beat everyone in that
category...the number of incomplete projects. The only problem is that I
would be embarassed to list them all.

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

On Fri, 24 Oct 1997, J. Skalski wrote:

> Hello.
> I have my FT1000D on the bench. Boo hoo.
> I seem to have located the problem. The symptoms were :
> the SWR read *high* , the meter said 5:1 or better with or without the
> automatic antoona tenner.
>
> The power folds back to 3 watts (not that there is anything wrong with
> that)   It shouldn't *always* do that.
>
> There is a little SWR circuit on the LPF board which is the bandpass
> filter board. Two of the four diodes in the swr circuit seem to have
> blowed out.
>
> The schematic says that they are 1SS101 diodes. Is this a foreign >

Date: Sun, 2 Nov 1997 12:18:54 -0700 (MST)
From: "John Kirk, VE6XT" <jakirk@freenet.calgary.ab.ca>
To: qrp-l@Lehigh.EDU
Subject: [30118] IC-706
Message-ID: <Pine.A32.3.93.971102121200.30574A-100000@srv1.freenet.calgary.ab.ca>

Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Without even having access to the service manual or schematic, I can
pretty much guarantee you that what you hear is the QSK relay. Modern rigs
don't, as a rule, offer you an amp-key relay. The amp key line is
typically just the collector of a transistor, brought close to ground on
transmit. You or your linear supply the relay if you feel you need one.
"Real" qrp ops wear headphones, so a relay or two clacking away would not
be enough to scare us away from an otherwise fine-performing rig.
See you on the bands (with my '706)
73
John

Date: Sun, 2 Nov 1997 13:48:34 MST
From: kv7g@juno.com
To: jakirk@freenet.calgary.ab.ca
Cc: qrp-l@Lehigh.EDU
Subject: [30119] Re: IC-706
Message-ID: <19971102.134834.15718.2.kv7g@juno.com>

I have had many Kenwoods and they all used relays for the AMP, some had a
jumper inside to dissable it and some had switches on the back to shut
it off if you did not use an AMP. I may be mistaken but I would almost
bet that I replaced the one in my TS-940 with a Radio Shack Power Mosfet.

Bud - KV7G

On Sun, 2 Nov 1997 12:18:54 -0700 (MST) "John Kirk, VE6XT"
<jakirk@freenet.calgary.ab.ca> writes:
>
>Without even having access to the service manual or schematic, I can
>pretty much guarantee you that what you hear is the QSK relay. Modern
>rigs
>don't, as a rule, offer you an amp-key relay. The amp key line is
>typically just the collector of a transistor, brought close to ground
>on
>transmit. You or your linear supply the relay if you feel you need
>one.
>"Real" qrp ops wear headphones, so a relay or two clacking away would
>not
>be enough to scare us away from an otherwise fine-performing rig.
>See you on the bands (with my '706)

>73
>John
>
>
>

Date: Sun, 02 Nov 1997 16:12:41 EST
From: n4so@juno.com (charles k brown)
To: qrp-l@Lehigh.EDU
Subject: [30120] CIRCAD 3.67b Demo
Message-ID: <19971102.041047.4391.2.n4so@juno.com>

CIRCAD 3.67B Demo
>From the ARRL Hiram BBS computer
Download CCDEMO.zip
The ARRL Hiram BBS is via computer and modem 1 -860-594-0306.
Complete files in !!Files.bbs
The Sept. 1996 listing of ARRL BBS files is showing this:

CCDEMO.ZIP   418,105   11/04/94 | New CIRCAD 3.67b Demo (With Hypertext
Dwnlds: 62   DL Time 00:07:20 | Manual)
nnnn
hiram.txt

Date: Sun, 02 Nov 1997 13:52:03 -0800
From: W7LS <w7ls@blarg.net>
To: qrp-l@Lehigh.EDU
Subject: [30121] Digitrex 40 m DSB/CW xcvr 4 sale/swap
Message-ID: <345CF603.5D92@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi, gang.
     I have decided to part with my Digitrex 40 meter DSB/CW transceiver, so I can get something that will work on 80 meters. Looking to swap, primarily, but open to offers on it.
     It covers 7.0 to 7.5 MHz, has a digital display, with resolution to 100 Hz, a good cw filter with stated width of 150 Hz, and it does sound pretty good, and a 2.1 KHz filter (I think it is 2.1) for sideband. Not an unbuilt kit. It is already assembled and working.
     The current drain is really good. With the display on, it draws

125 mA and with the display switched off, it drops to 65 mA. I know of no other sideband rig with that low of a current draw.
Transmit power is variable from milliwatts up to 10 watts output.

Case is virtually like new. Bright and shiny. Inside is pretty standard looking. Construction quality is average, not junky, not production line.

Looking for some rig that will run on 80 meters. Doesn't absolutely need to be a sideband rig. Will consider whatever is appropriate.

73 de Jim, W7LS

Date: Sun, 02 Nov 1997 16:04:22 -0600
From: Karl Heimbach <heimbach@concentric.net>
To: qrp-l reflector <qrp-l@Lehigh.EDU>
Subject: [30121] MFJ 9020 sold
Message-ID: <345CF8E6.301A@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The MFJ 9020 QRP rig has been sold.

Thanks.

Date: Sun, 2 Nov 1997 00:32:01 -0500
From: Tom Morgan <liveoak@sccoast.net>
To: "'rong@slip.net'" <rong@slip.net>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [30122] RE: Links in email
Message-ID: <01BCE7B2.CF6F3CE0.liveoak@sccoast.net>

Ron,

Depending on your browser (Microsoft & Netscape) Just type in the URL & it will appear as a hyperlink on your msg.

Tom KU4LB

-----Original Message-----

From: Ron Giuntini [SMTP:rong@slip.net]
Sent: Sunday, November 02, 1997 12:34 AM
To: Low Power Amateur Radio Discussion
Subject: Links in email

OK. Many of you guys are sharp and are able to put a link into an email..I am not up on this yet...Can someone tell me how it is done?

Date: Sun, 02 Nov 1997 16:53:47 -0600
From: Glen Reid <k5hgb@flash.net>
To: QRP-l List <qrp-l@Lehigh.EDU>
Subject: [30123] Next Austin (TX) QRP Club Meeting - A QRP Club
Message-ID: <345D047A.B699BCBD@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The next regular meeting of the Austin QRP Club (A QRP) will be:

Date: Saturday, November 8, 1997

Time: 10 AM

Location: 7505 St. Phillip

Bill Howell has graciously offered the hospitality of his home for our next meeting.

For directions to Bill's house, please request by email.

PLEASE RSVP BY REPLY TO THIS MESSAGE SO BILL CAN KNOW HOW MANY TO EXPECT!!!

I look forward to seeing you all at Bill's.

gr

--
GLEN REID
K5HGB/M(Zero)BGF

Austin, Texas
...in the beautiful hill country of TEXAS...

Austin QRP Club # Pi

Email: k5hgb@flash.net

Date: Sun, 02 Nov 1997 18:45:22 EST
From: k4zd@juno.com (Robert L Hanrahan)
To: qrp-l@Lehigh.EDU
Subject: [30124] Re:FS OHR ExpII-30M
Message-ID: <19971102.200019.14287.0.k4zd@juno.com>

A fellow local ham has decided to sell his immaculate
Oak Hills Research Explorer II for 30 meters. Seldom
used rig supplied with assy manual and power cable.
He is asking $85.00 post paid.

If interested, e-mail K4ZD@juno.com
72's-Bob Hanrahan-K4ZD

End of QRP-L Digest 897
****